(FILE 'HOME' ENTERED AT 17:25:25 ON 08 MAY 2000)

INDEX 'ADISALERTS, ADISINSIGHT, AGRICOLA, AIDSLINE, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO, CABA,

CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 17:25:33 ON 08 MAY 2000

E FISCHER, D?/AU. SEA E1-E11 AND MICROPHTHALMIA

- 0* FILE ADISINSIGHT
- 0* FILE BIOCOMMERCE
- 0* FILE CIN
- 0* FILE DRUGLAUNCH
- 0* FILE DRUGMONOG2
- 0* FILE DRUGNL
- 0* FILE FOREGE
- 0* FILE PHAR
- O* FILE PHIC
- O* FILE PHIN

QUE ("FISCHER, D S"/AU OR "FISCHER, D W"/AU OR "FISCHER,

D?"/AU

L1

SEA FISCHER AND MICROPHTHALMIA

- 1 FILE BIOBUSINESS
- 5 FILE BIOSIS
- 1 FILE CABA
- 1 FILE CANCERLIT
- 5 FILE CAPLUS
- 5 FILE EMBASE
- 1 FILE ESBIOBASE
- 1 FILE HEALSAFE
- 2 FILE LIFESCI
- 5 FILE MEDLINE
- 2 FILE NIOSHTIC
- 3 FILE SCISEARCH
- 10 FILE TOXLINE
- 5 FILE TOXLIT

QUE FISCHER AND MICROPHTHALMIA

L2

FILE 'TOXLINE, BIOSIS, CAPLUS, EMBASE, MEDLINE, TOXLIT, SCISEARCH, LIFESCI, NIOSHTIC, BIOBUSINESS, CABA, CANCERLIT, ESBIOBASE, HEALSAFE' ENTERED AT 17:28:22 ON 08 MAY 2000

L3 0 S FISCHER AND MICROPHTHALMIA AND MELANOMA

L4 47 S FISCHER AND MICROPHTHALMIA

L5 8 DUP REM L4 (39 DUPLICATES REMOVED)

INDEX 'ADISALERTS, ADISINSIGHT, AGRICOLA, AIDSLINE, ANABSTR, AQUASCI, BIOBUSINESS, BIOCOMMERCE, BIOSIS, BIOTECHABS, BIOTECHDS, BIOTECHNO,

CABA,

CANCERLIT, CAPLUS, CEABA, CEN, CIN, CONFSCI, CROPB, CROPU, DDFB, DDFU, DGENE, DRUGB, DRUGLAUNCH, DRUGMONOG2, ...' ENTERED AT 17:30:25 ON 08 MAY 2000

SEA (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP)

```
FILE ADISALERTS
 2462
  82
        FILE ADISINSIGHT
       FILE AGRICOLA
  763
        FILE AIDSLINE
17398
        FILE ANABSTR
  107
        FILE AQUASCI
  610
 3776
        FILE BIOBUSINESS
   30
        FILE BIOCOMMERCE
 8795
        FILE BIOSIS
        FILE BIOTECHABS
  140
        FILE BIOTECHDS
  140
        FILE BIOTECHNO
 1438
 1299
        FILE CABA
        FILE CANCERLIT
30238
        FILE CAPLUS
 9106
        FILE CEABA
   94
        FILE CEN
   34
        FILE CIN
 1790
  161
        FILE CONFSCI
        FILE CROPB
    5
        FILE CROPU
  180
        FILE DDFB
   97
        FILE DDFU
10227
  331
        FILE DGENE
  97
        FILE DRUGB
  136
        FILE DRUGLAUNCH
  273
        FILE DRUGMONOG2
        FILE DRUGNL
   22
13819
        FILE DRUGU
        FILE EMBAL
  160
 8805
         FILE EMBASE
         FILE ESBIOBASE
 1916
         FILE FOMAD
   13
         FILE FOREGE
   15
         FILE FROSTI
   42
   92
         FILE FSTA
36824
         FILE GENBANK
         FILE HEALSAFE
  109
         FILE IFIPAT
  981
  1153
         FILE JICST-EPLUS
         FILE KOSMET
    9
 1251
         FILE LIFESCI
264536
         FILE MEDLINE
         FILE NIOSHTIC
  172
         FILE NTIS
  1702
         FILE OCEAN
  661
         FILE PHAR
   104
         FILE PHIC
    3
   682
         FILE PHIN
 57020
         FILE PROMT
 14714
         FILE SCISEARCH
 43576
         FILE TOXLINE
 1695
         FILE TOXLIT
 12702
         FILE USPATFULL
 2575
       FILE WPIDS
  2575 FILE WPINDEX
     QUE (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP)
      SEA (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) AND
     2 FILE AGRICOLA
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TRANSCR

L6

555 FILE AIDSLINE

4 FILE AQUASCI

```
FILE BIOSIS
202
       FILE BIOTECHABS
  4
       FILE BIOTECHDS
  4
132
       FILE BIOTECHNO
       FILE CABA
 10
1750
      FILE CANCERLIT
183
      FILE CAPLUS
      FILE CEABA
  1
       FILE CIN
  3
      FILE CONFSCI
  1
 15
      FILE DDFU
 18
      FILE DRUGU
  8
      FILE EMBAL
 166
      FILE EMBASE
      FILE ESBIOBASE
 108
       FILE FSTA
  1
       FILE GENBANK
 148
       FILE IFIPAT
  2
       FILE JICST-EPLUS
 20
 68
      FILE LIFESCI
       FILE MEDLINE
2846
       FILE NTIS
  3
       FILE PHIN
   3
       FILE PROMT
 18
      FILE SCISEARCH
 303
 614
      FILE TOXLINE
 71
       FILE TOXLIT
       FILE USPATFULL
 665
       FILE WPIDS
      FILE WPINDEX
    OUE (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) AND
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L7 TRANSCR

FILE 'MEDLINE, CANCERLIT, USPATFULL, TOXLINE, AIDSLINE, SCISEARCH, BIOSIS, CAPLUS, EMBASE, GENBANK, BIOTECHNO, ESBIOBASE, TOXLIT, LIFESCI, JICST-EPLUS, DRUGU, PROMT, CABA, EMBAL, AQUASCI, BIOTECHDS, CIN, NTIS, PHIN, WPIDS, AGRICOLA, IFIPAT, CEABA, CONFSCI, ... 'ENTERED AT 17:36:13

ON 08 MAY 2000 7912 S (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) AND L8TRANSCRIP 18 S L8 AND FISCHER L9 18 DUP REM L9 (0 DUPLICATES REMOVED) L10 376 S L8 AND MELANOMA L11 O S L8 AND (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) (10W) M L12 41 S L8 AND (MICROPHTHALMIA OR MI OR MYC-RELATED B-HLH-ZIP) (10W) M L13 7 DUP REM L13 (34 DUPLICATES REMOVED) L14

- ANSWER 8 OF 10 SCISEARCH COPYRIGHT 2000 ISI (R) L7
- AN 1998:288448 SCISEARCH
- The Genuine Article (R) Number: ZD914 GΑ
- MITF regulation in melanoma cells: Contrasts with ΤI normal melanocytes
- OlaizolaHorn S (Reprint); Park H Y; Gilchrest B A ΑU
- BOSTON UNIV, DEPT DERMATOL, BOSTON, MA 02118 CS
- CYA USA
- JOURNAL OF INVESTIGATIVE DERMATOLOGY, (APR 1998) Vol. 110, No. 4, pp. so 711-711. Publisher: BLACKWELL SCIENCE INC, 350 MAIN ST, MALDEN, MA 02148. ISSN: 0022-202X.
- DTConference; Journal
- FS LIFE; CLIN
- LΑ English
- REC Reference Count: 0

20106828

- TI Expression of genes for microphthalmia isoforms, Pax3 and MSG1, in human melanomas.
- AU Vachtenheim J; Novotna H
- CS Laboratory of Molecular Biology, University Hospital, 3rd Medical Faculty,
- Charles University, Prague 8-Bulovka, Czech Republic.. jivach@upn.anet.cz CELLULAR AND MOLECULAR BIOLOGY, (1999 Nov) 45 (7) 1075-82.

 Journal code: BNA. ISSN: 0145-5680.
- CY France
- DT Journal; Article; (JOURNAL ARTICLE)
- LA English
- FS Priority Journals
- EM 200005
- EW 20000503
- Microphthalmia (MITF) gene product, a transcription factor of the AB basic-helix-loop-helix type, is thought to play a role in the regulation of genes encoding the enzymes necessary for melanogenesis. These include tyrosinase, TRP-1 and TRP-2. Melanocyte-specific isoform of microphthalmia, MITF-M, is expressed in normal and malignant melanocytes. The presence of two other isoforms of microphthalmia, MITF-A and MITF-H, which differ from MITF-M in the amino-terminus, was demonstrated also in some non-melanocytic lineages. Here we have analyzed the presence of all three known isoforms of MITF mRNA in a panel of 17 human melanoma cell lines by a reverse transcriptase-polymerase chain reaction using isoform-specific primers. While, as expected, the predominant form in melanoma cell lines was MITF-M, low amounts of MITF-A mRNA was found in almost all melanomas, as well as in most of 20 tumor cell lines of the non-melanocyte origin (lung and colon carcinomas, osteosarcomas and neuroblastomas). The expression of MITF-H was not detected, with a few exceptions, in the tested cell lines. Pax3 transcription factor was reported earlier to regulate positively the melanocyte-specific promoter of the MITF gene. We found here that the Pax 3 mRNA was expressed in all melanoma cell lines, even in those that had repressed the MITF-M and were amelanotic. This suggests that additional factors, besides Pax3, are required for the MITF expression. The MSG1 (melanocyte-specific gene 1), a gene originally isolated from melanocytes and containing a strong transcription activation domain, was also found expressed in all melanomas and most non-melanocyte tumor cell lines. Together, these data indicate that the MITF-M isoform is the major type οf
 - MITF mRNA present in human melanoma cell lines and show that the expression of the isoform MITF-A and the MSG1 is not restricted to malignant melanocytes and occurs in a wide range of tumor cell lines.

- TI The melanocyte-specific isoform of the microphthalmia transcription factor affects the phenotype of human melanoma
- AU Selzer, Edgar; Wacheck, Volker; Lucas, Trevor; Heere-Ress, Elisabeth; Wu, Min; Weilbaecher, Katherine N.; Schlegel, Werner; Valent, Peter; Wrba, Fritz; Pehamberger, Hubert; Fisher, David; Jansen, Burkhard
- CS Department of Radiotherapy and Radiobiology, Center of Excellence for Clinical and Experimental Oncology, University Hospital Vienna, Vienna, 1090, Austria
- SO Cancer Research (2002), 62(7), 2098-2103 CODEN: CNREA8; ISSN: 0008-5472
- PB American Association for Cancer Research

with different tumor biol. and prognosis.

- DT Journal
- LA English
- The microphthalmia transcription factor MITF plays a AB pivotal role in the development and differentiation of melanocytes. purpose of this work was to investigate the expression and function of the melanocyte-specific isoform MITF-M in human melanoma. The authors found that MITF-M is repressed in 8 of 14 established melanoma cell lines tested. Transfection of MITF-M into a melanoma cell line (518A2) lacking the M-isoform and into a permanent cell line established from normal melanocytes (NMel-II) resulted in slower tumor growth in a severe combined immunodeficient-mouse xenotransplantation model. growth difference between vector control-transfected tumors derived from the NMel-II cell line (mean tumor wt., 3.2 g) and MITF-M (+) transfectants (mean tumor wt., 1.1 g) was significant. The mean tumor wt. of control-transfected 518A2 tumors was 0.99 g and of MITF-M (+) transfectants, 0.69 g. The difference in growth between 518A2 controls and the MITF-M (+) transfectants was clear, however it did not reach statistical significance. In addn. to the growth-inhibitory effects, MITF-M expression led to a change in the histopathol. appearance of tumors from epithelioid toward a spindle-cell type in vivo. These results indicate a role for the MITF-M isoform in the in vivo growth control and the phenotype of human melanoma. In conclusion, MITF-M may

qualify as a marker capable of identifying subgroups of melanoma patients